Questions and Answers

ProSim Vital Signs Simulators – Other FAQ

Question: I was demonstrating ProSim IBP simulation feature to a customer on a Philips patient monitor, the IBP waveform seemed to be correct, but no numerical display occurred. Is there something wrong with the monitor or ProSim?

Answer: **No. Ensure both ProSim 4 or 8 and patient monitor are properly zeroed before starting the IBP simulation. Below is the step by step procedure on how to properly zero both patient monitor and ProSim 8 for IBP number to display. Please note: the zero procedure on different patient monitors may be different. Please refer to patient monitor user manual for details. The example below uses HP/Philips Viridia vital sign patient monitor:**

- **Connect ProSim 8 and HP Viridia monitor with proper IBP cables**
- **Select IBP on ProSim 8, ZERO both IBP channels**
- **On HP/Viridia, select MODULE SETUP**
- **Then select PRESS 1 ABP**
- **Press ZERO XDUCER**
- **ZERO IN PROCESS should display on the monitor**
- **Initiate the ProSim 8 IBP simulation. IBP numbers should display on the HP Viridia monitor**

Question: I need a simulator that has four or more IBP (Invasive Blood Pressure) channels; ProSim 8 only has two channels.

Answer: **The more IBP channels a simulator has, the larger and more expensive the simulator will be. The majority of our fleet of customer design partners reported they do not have to use more than two IBP channels at the same time; those who do need to test three or more IBP channels have chosen to test two IBP channels at a time, then two more, and so on. This preference avoids that extra cost, size and weight, and still yields faster/easier testing in the end.**

Question: Which 8 main parameters does ProSim 8 test?

Answer: **ProSim 8 simulates following 8 parameters:**

1) **ECG (including normal and Arrhythmias),**
2) **Respiration**
3) **IBP (Invasive Blood Pressures)/Cardiac Catheterization**
4) **Temperature**
5) **Cardiac Output**
6) **NIBP (Non-Invasive Blood Pressure)**
7) **SpO_2**
8) **Masimo Rainbow**

Question: Which 4 main parameters does ProSim 4 test?

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Answer: **ProSim 4 simulates following 4 parameters:**

1) **ECG (including normal and Arrhythmias),**
2) **Respiration**
3) **IBP (Invasive Blood Pressures)**
4) **NIBP (Non-Invasive Blood Pressure)**

Question: Why is it important to test alarms in a patient monitor?

Answer: **Alarm hazards ranks second on the Heath Technology Hazards of 2011. The Boston Globe recently reported the death of a patient whose treatment have been delayed because a critical physiologic monitoring alarm had been turned off.**

Question: What are the two USB ports on ProSim 8 used for?

Answer: **The mini B USB Device Port (labeled "Device" underneath the port) is used to connect to a PC for remote control or download test results data to a PC. USB A Controller Port (labeled "Host" underneath the port) is for external keyboard, barcode reader, or printer.**

Question: What does ACLS stand for?

Answer: **ACLS means Advanced Cardiac Life Support (ACLS). ACLS algorithms includes waveforms from Ventricular Fibrillation, Atria Fibrillation to Complete Heart Block.**

Question**:** What is Swan-Ganz Procedure?

Answer: **After insertion of a Swanz-Ganz catheter into a vein (usually the basilic vein of the forearm), the catheter is gently guided by the flow of the blood into the pulmonary artery. A monitor attached to the distal lumen port supplies a reading of pulmonary-artery pressure (PAP). Pulmonary-capillary-wedge pressure (PCWP) is determined by inflating the balloon, which becomes wedged; when this wedge blocks blood flow, it provides a reading of the pressure in the left side of the heart.**